From the INTERNATIONAL SEARCHING AUTHORITY

DE HENRY TANG	PCT was a same build.
BAKER & BOTTS, LLP 30 ROCKEFELLER PLAZA	nn APR_11
NEW YORK NY 10112-0228	NOTIFICATION OF TRANSMITTAL OF
	THE INTERNATIONAL SEARCH REPORT
	OR THE DECLARATION
	(PCT Rule 44.1)
	Date of Mailing (day/month/year) 06 APR 2000
pplicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below
32282-PCT	International filing date
national application No.	(day/month/year)
PCT/US99/26127	05 NOVEMBER 1999
THE TRUSTEES OF COLUMBIA UNIVERSITY IN TH	
	ional search report has been established and is transmitted herewit.
Filing of amendments and statement under A The applicant is entitled, if he so wishes, to ame	end the claims of the international appropriation (see that
When? The time limit for filing such ame international search report, however,	endments is normally 2 months from the date of transmittal of the for more details, see the notes on the accompanying sheet.
Where? Directly to the International Bureau 34, chemin des Colo	ombettes
1211 Geneva 20, Sw Facsimile No.: (41-2	(2) 740.14.35
For more detailed instructions, see the note	
2. The applicant is hereby notified that no interna Article 17(2)(a) to that effect is transmitted here	ational search report will be established and that the declaration under with.
3. With regard to the protest against payment o	f (an) additional fee(s) under Rule 40.2, the applicant is notified that:
applicant's request to forward the texts of	reon has been transmitted to the International Bureau together with the f both the protest and the decision thereon to the designated Offices.
no decision has been made yet on the pr	rotest, the applicant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of t	he following:
priority claim, must reach the International Bures completion of the technical preparations for inter	ternational application will be published by the International Bureau. If sation, a notice of withdrawal of the international application, or of the au as provided in rules 90 bis 1 and 90 bis 3, respectively, before the national publication.
wishes to postpone the entry into the national pri	for international preliminary examination must be filed if the applicant lase until 30 months from the priority date (in some Offices even later).
	t must perform the prescribed acts for entry into the national phase before ad in the demand or in a later election within 19 months from the priority
date of could not be cleared occurs and	
	Authorized officer
Name and mailing address of the ISA/US	Authorized officer
	MEHRDAD DASTOURI

Form PCT/ISA/220 (July

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 32282-PCT	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.				
International application No.	International filing date	(day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/US99/26127	05 NOVEMBER 199	9	06 NOVEMBER 1998			
Applicant THE TRUSTEES OF COLUMBIA UNIVERSIT'. IN THE CITY OF NEW YORK						
according to Article 18. A copy is bei	ing transmitted to the Intermits of a total of $4$ she is	ational Dureau.	hority and is transmitted to the applicant			
X it is also accompanied by a	copy of each prior art doc	ument cited in this r	eport.			
1. Certain claims were found unsearchable (See Box I).						
2. Unity of invention is lacki						
3. The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing						
	filed with the international	application.				
	furnished by the applicant separately from the international application,					
	but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.					
	transcribed by this Author	ity.				
4. With regard to the title, X	the text is approved as sub	omitted by the applic	ant.			
	the text has been establish	ed by this Authority	to read as follows:			
5. With regard to the abstract,						
	the text is approved as sub	mitted by the applic	ant.			
<del></del>	the text has been established in Box III. The applicant international search report,	may, within one m	e 38.2(b), by this Authority as it appears tonth from the date of mailing of this bethis Authority.			
6. The figure of the drawings to be published with the abstract is:						
Figure No. 2	as suggested by the applicant					
	because the applicant failed		None of the figures.			
	because this figure better c					

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

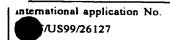
## **NEW ABSTRACT**

Systems and methods for describing image content (Figure 2) establish image description records which include an object set (24), an object hierarchy (26) and entity relation graphs (28). For image content, image objects can include global objects (O0 8) and local objects (O1 2 and O2 6). The image objects are further defined by a number of features of different classes (36, 38 and 40), which in turn are further defined by a number of feature descriptors. The relationships between and among the objects in the object set are defined by the object hierarchy (26) and entity relation graphs (28). The image description records provide a standard vehicle for describing the content and context of image information for subsequent access and processing by computer applications such as search engines, filters, and archive systems.

A. CLAS	SSIFICATION OF SUBJECT MATTER						
	Please See Extra Sheet.						
	Please See Extra Sheet.	national classification and IPC					
According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED							
	ocumentation searched (classification system follower	d by classification symbols)					
	382/164, 165, 173, 181, 190, 195, 205, 232, 237, 30						
Documentat	ion searched other than minimum documentation to the	extent that such documents are included	in the fields searched				
	ata base consulted during the international search (na e Extra Sheet.	ame of data base and, where practicable,	search terms used)				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.				
Y	US 5,579,444 A (DALZIEL et al) 26 N 24, 26; col. 10, lines 42-67; col. 12, 57; col. 39, lines 14-67, col. 40, lines	1-64					
Y	US 5,144,685 A (NASAR et al) 01 Se 7; col. 4, lines 41-68, col. 5, lines 1-3 lines 9-68, col. 10, lines 1-25.	1-64					
Y	Tuong Dao, IEEE Proceedings, ISBN: especially Pages 88-90.	0-8186-8464-X; Pages 88-97,	16-19, 35-38, 52- 55				
Further documents are listed in the continuation of Box C. See patent family annex.							
* Sp	ecial categories of cited documents	"T" later document published after the inte					
	cument defining the general state of the art which is not maidered be of particular relevance	date and not in conflict with the appli the principle or theory underlying the					
	lier document published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider					
	cument which may throw doubts on priority claim(s) or which is od to establish the publication date of another citation or other	when the document is taken alone					
*O* do	icial reason (as specified)  cument referring to an oral disclosure, use, exhibition or other  sens	"Y" document of particular relevance; the considered to involve an inventive combined with one or more other such being obvious to a person skilled in the	step when the document is documents, such combination				
	cument published prior to the international filing date but later than priority date claimed	*A* document member of the same patent	family				
	actual completion of the international search  UARY 2000	Date of mailing of the international sea	rch report				
Commission Box PCT	nailing address of the ISA/US ner of Patents and Trademarks a, D.C. 20231 o. (703) 305-3230	Authorized officer  MEHRDAD DASTOURI  Telephone No. (703) 305-2438					

## INTERNATIO \L SEARCH REPORT





A. CLASSIFICATION	OF	SUBJECT	MATTER:
IPC (6):			

GO6K 9/00, 9/34, 9/46, 9/56, 9/36, 9/60; G06F 3/00; G09C 5/00; H04N 7/12; G06F 7/00, 15/00.

A. CLASSIFICATION OF SUBJECT MATTER:

US CL :

382/164, 165, 173, 181, 190, 195, 205, 232, 237, 304; 707/1, 3, 104, 514; 345/114, 328; 348/408; 706/55.

### **B. FIELDS SEARCHED**

Electronic data bases consulted (Name of data base and where practicable terms used):

### EAST, IEEE;

Feature Extraction, Hierarchy, Entity Relation, Segmentation, Annotation, Semantic, Cluster, XML, SGML, HTML, Structured Documents, Content Queries, Query Language, Encoding.

Form PCT/ISA/210 (extra sheet)(July 1992)\*